



Olilo Engineering Services

SrinSoft Inc, Partners of

Autodesk
Authorized Developer

PTC[®]

SOLIDWORKS

Microsoft
CERTIFIED
Partner



About Us

- Engineering & IT Services Company
- ISO 9001:2008 Certified
- Head Quartered at Columbus, OH

Overview



- AEC
- Healthcare & Insurance
- Finance
- Distribution
- Telecom
- Retail

Industry



- AutoCAD/Inventor/Revit
- Solidworks Automation
- Creo Design/Automation
- Navisworks Application Development
- Custom application for CAD software

Business Software Solutions



- Consultants globally
- Domain / Technology Expertise
- Dedicated R&D team

People



- Development
- Consulting
- Support & Maintenance

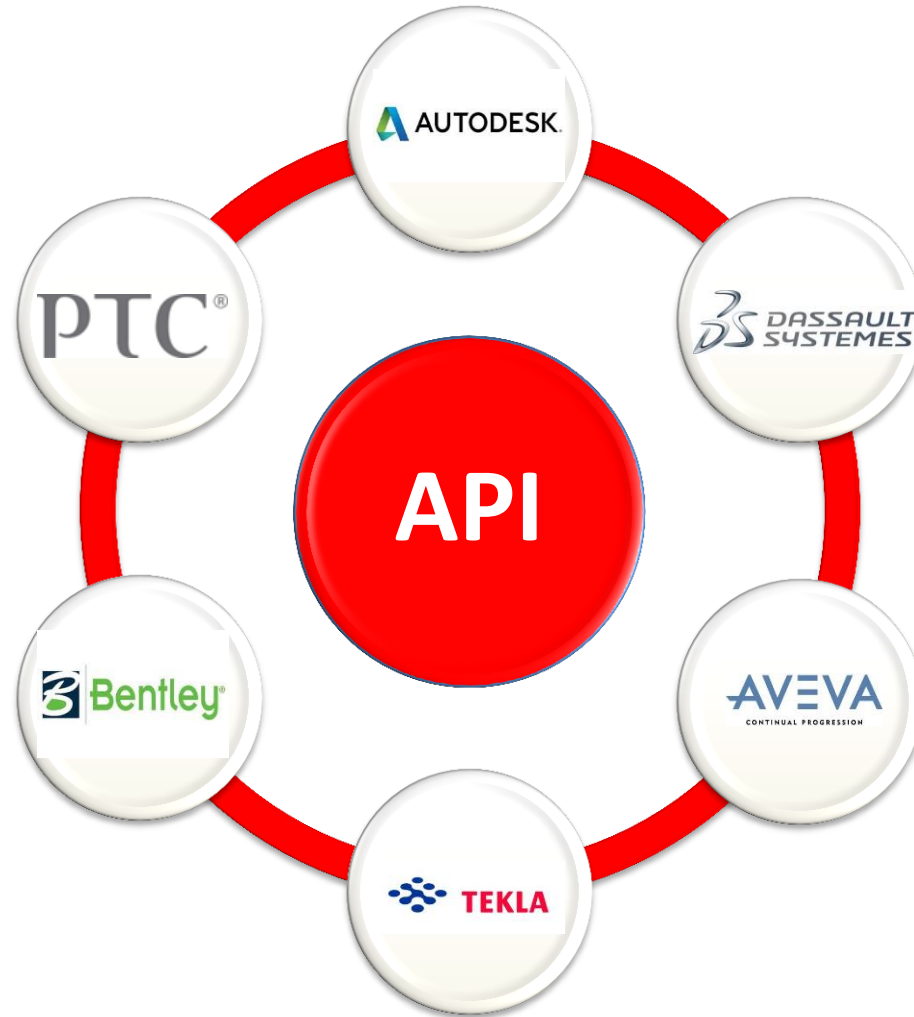
Services



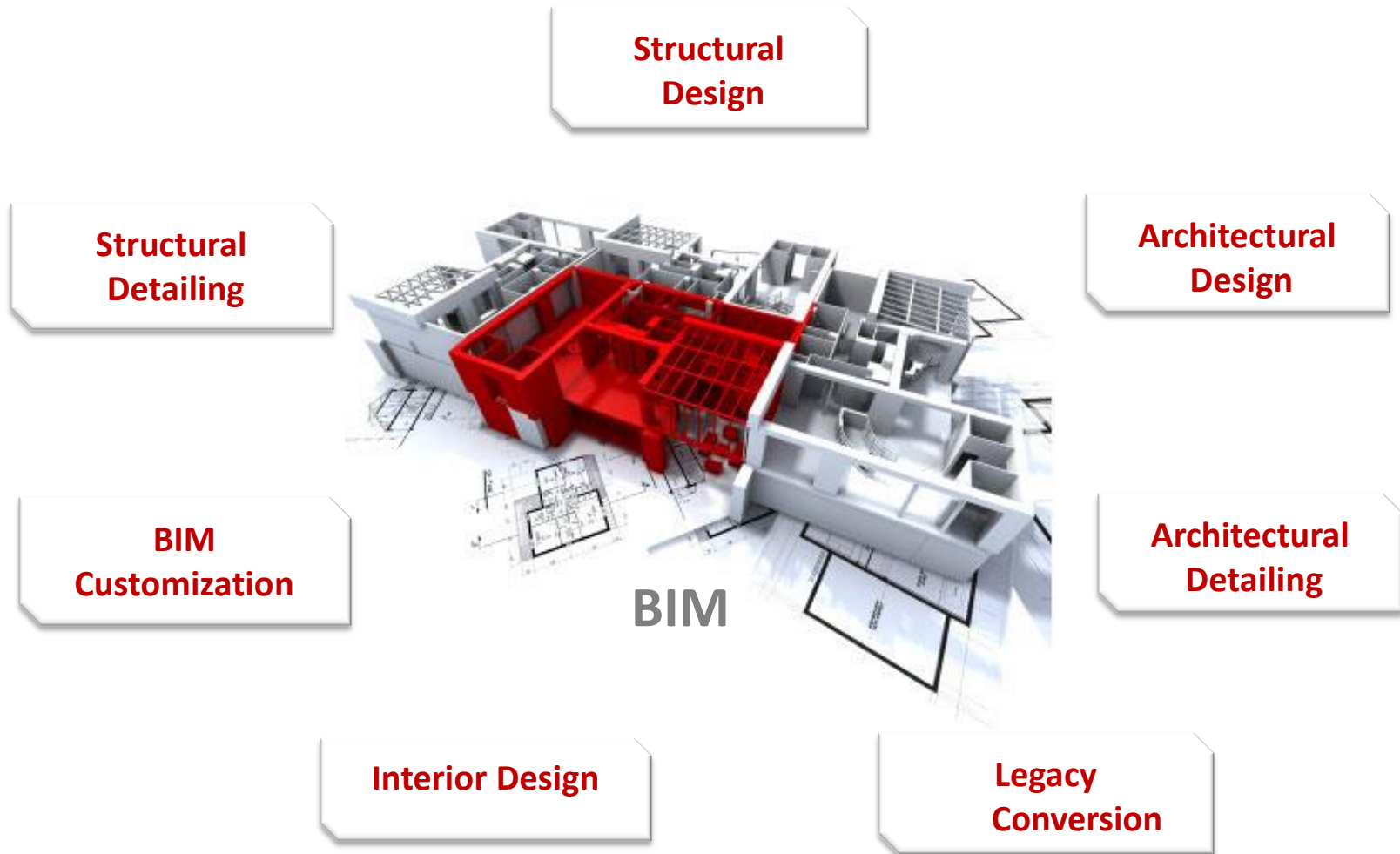
Our Value Proposition



Engineering Services



BIM Services

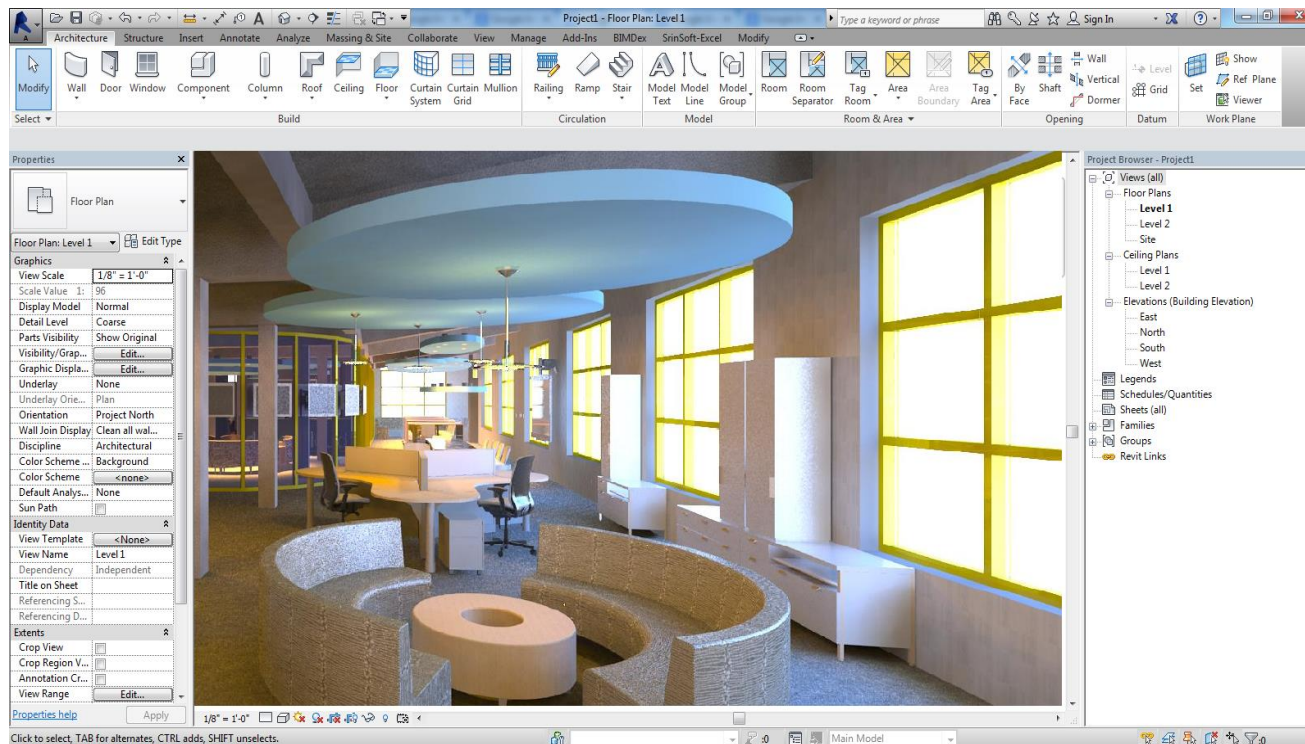


Project Portfolio

Design Services - BIM

Interior Design

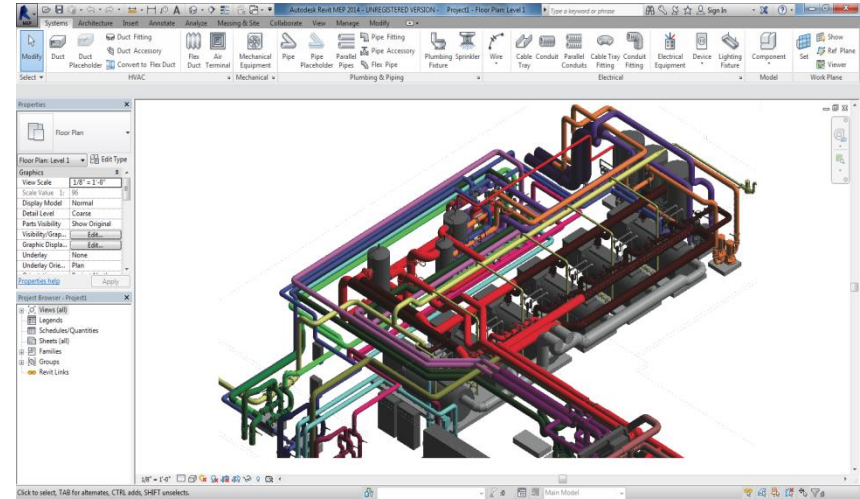
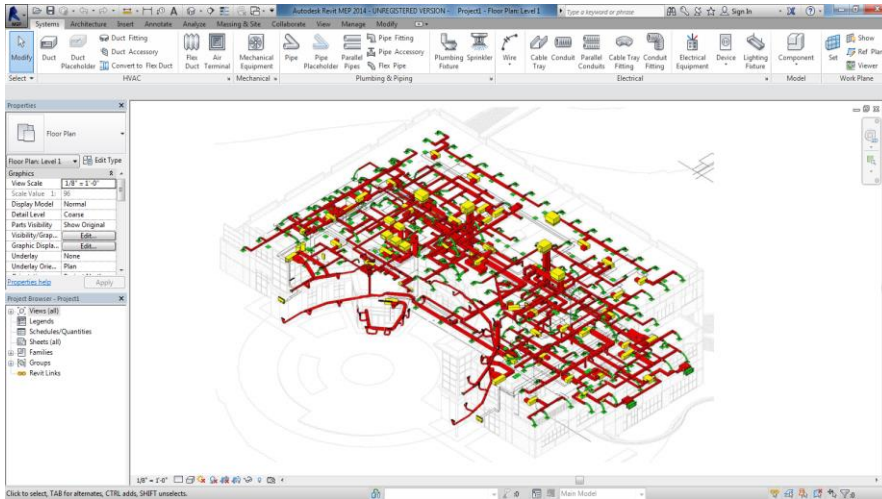
- Design with concept development, such as space planning, color concept, material selection and furnishings selection.
- Design amusing furniture layout, lighting and interior elements.



- We provide interior design for commercial, institutions and hotels.

MEP Design

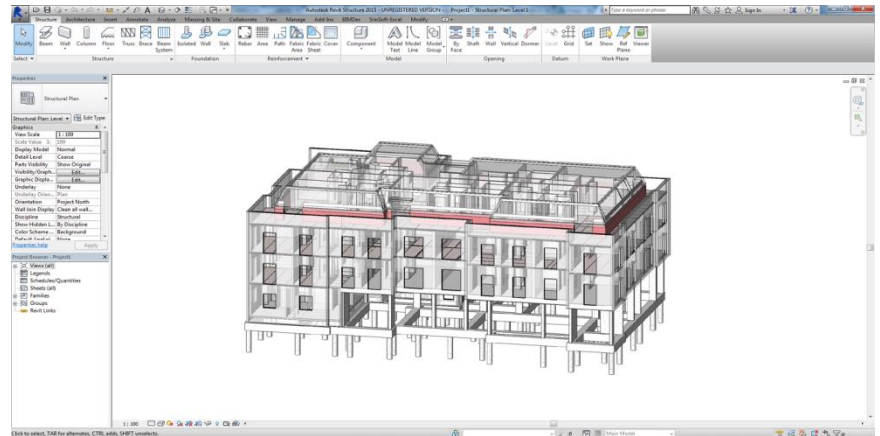
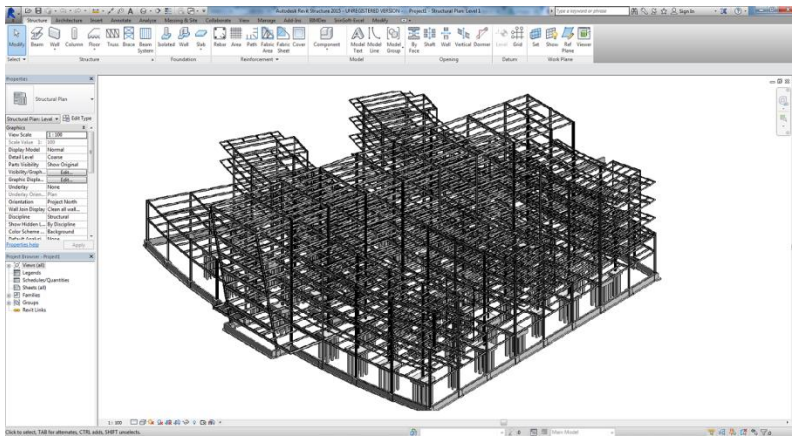
- Design and analysis with integrated analysis, detailed energy analysis, LEED and Energy Star analysis, Air and thermal flow simulation.
- Load Calculation (Cooling and Heating), HVAC Duct Design and Layout Design.



- Design with whole-building energy analysis to create more sustainable, energy efficient designs.

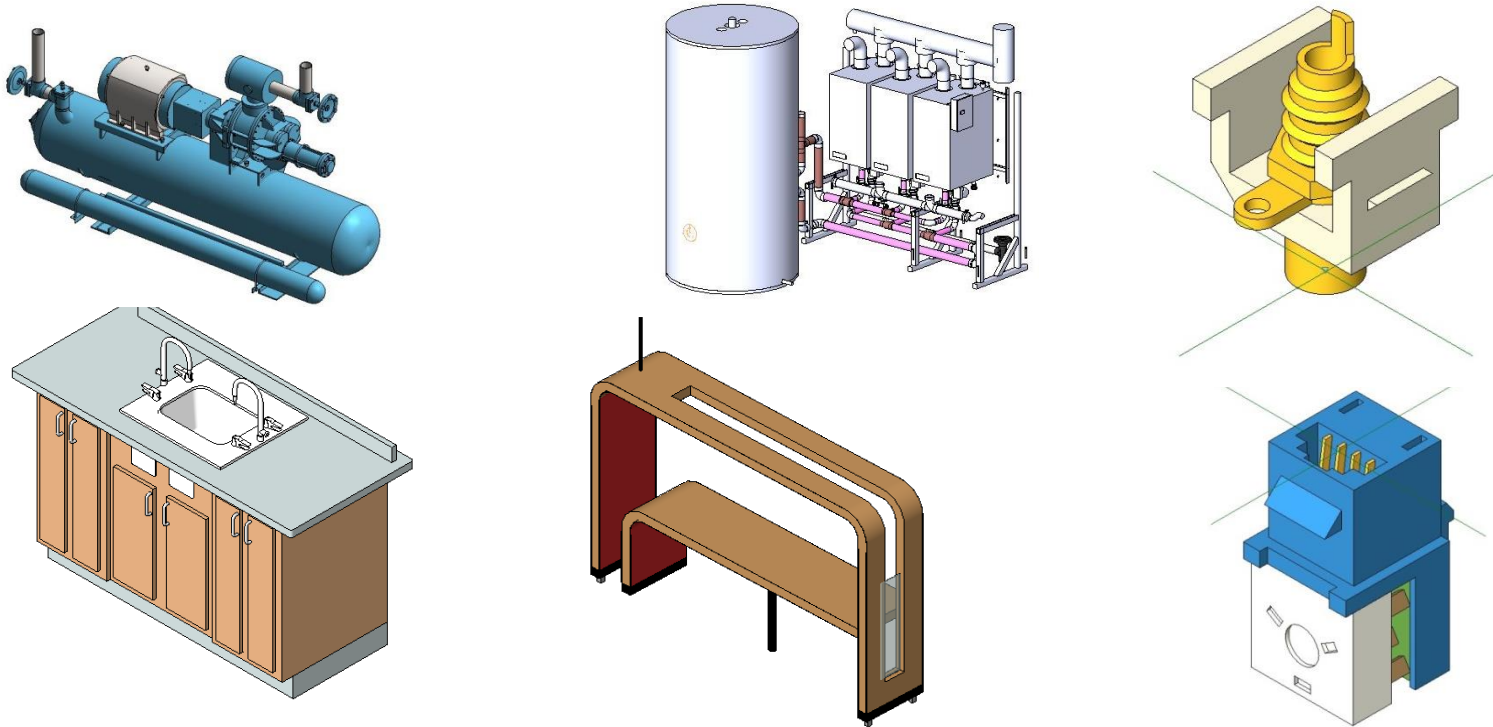
Structural Design

- Designs with high productivity, perform more accurate simulations, and collaborate more effectively with structural member.
- Designs with plan and result in the determination of the most suitable proportions, dimensions and details of the structural elements Produce a safer, cost-effective design with optimized steel cross sections and accurate amount of reinforcement for concrete elements according to national design codes.
- Model reinforcements in structural concrete elements.



Content Creation for Revit

- Olilo has a dedicated team of experts to create Autodesk Seek compatible Revit Content for Autodesk Revit Architecture, Revit MEP and Revit Structure.
- Creating accurate, efficient building information models that conform to your company's standards.



- We create system family which can be used by a particular system and standard family which can be created and used by several users.

Architectural Rendering

- Olilo creates high detailed, realistic 3D architectural renderings on projects around the world ranging from various industries by collaborating with architects, designers, developers, builders.
- We provide 3D renderings with the exact design, material and lighting specifications of your scheme, including people, vegetation, fixtures, fittings, furniture.

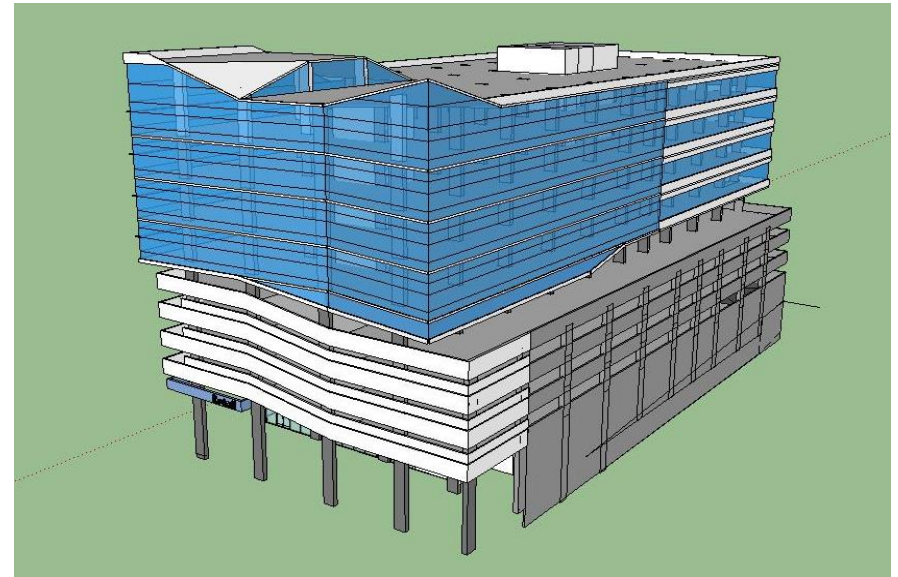
Olilo 3D Architectural Rendering Services Include

- ✓ Residential Buildings
- ✓ Commercial Buildings
- ✓ Industrial Buildings
- ✓ Architectural Rendering
- ✓ 3d Floor Plan
- ✓ Interior view
- ✓ Exterior view of all types of buildings
- ✓ Custom or modular furniture
- ✓ Landscaping Designing



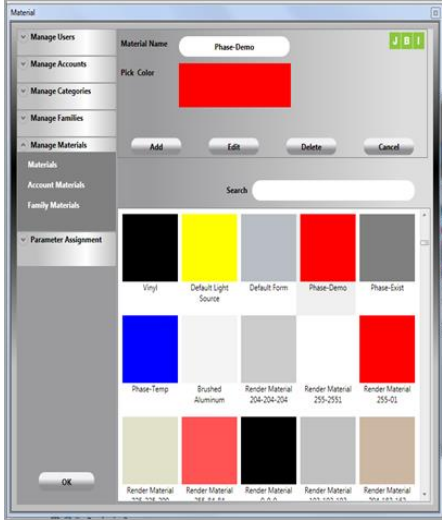
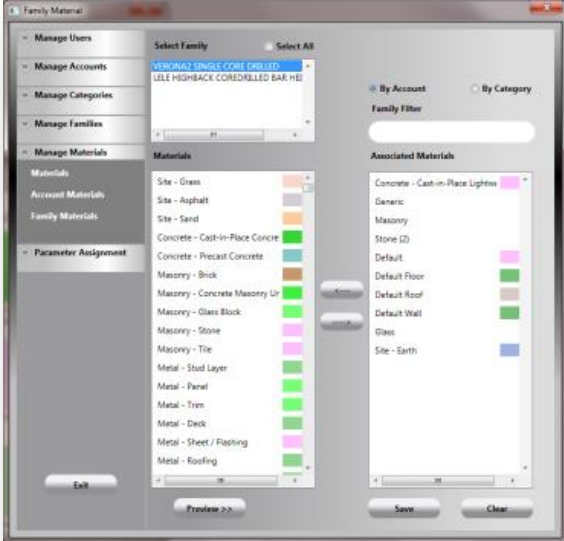
Conceptual Modeling

- Design with structure, properties and boundary conditions.
- Ability to organize and manage raw data into information for modeling.

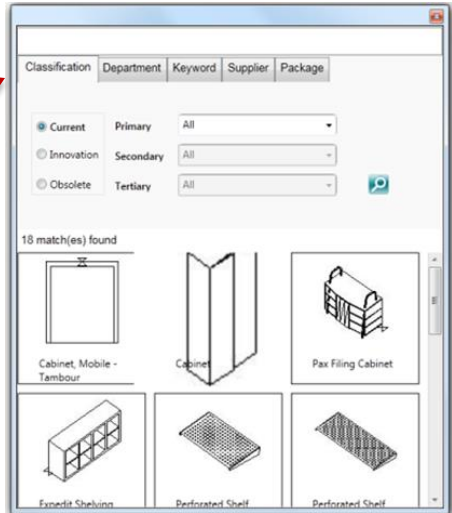


Architectural Engineering and Construction(AEC)

Design Process Automation - Revit



Web Server



Schedule Number: 1 SCHEDULE

Schedule To:	Ship To: STATE HIGHWAY 27 OKEMAH, OK	Project ID: L-McD0897 Schedule Date: 10/14/2011 Terms: Project Consultant: Cust ID:
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NOTE: ALL QUANTITIES DESCRIPTIONS, DIMENSIONS, MATERIALS & FINISHES MUST BE VERIFIED. STANDARD GRADE MATERIALS AND FINISHES ARE SCHEDULED UNLESS OTHERWISE NOTED. PRICES ARE SUBJECT TO CHANGE UPON VERIFICATION.

Line	Description	Item I.D.	Qty.	Unit Price	Net Price
1	VERONA2 DOUBLE CORE DRILLED 42" Standard Height Length_LTH:42"Width:48" Materials: Back Pad Color_L_BPCL:FA-ArcCom Shimmer AC69215 6 Perisimmon_FAIB000 Seat Color_SEC:FA-ArcCom Shimmer AC69215 6 Perisimmon_FAIB000 Support Color_SUP:PC-Stainless Steel 4_MES2P04	BT-4	2	\$300.00	\$600.00
2	VERONA2 SINGLE CORE DRILLED 90" Standard Height Length_LTH:90"Width:24" Materials: Back Pad Color_1_BPCL:FA-ArcCom Shimmer AC69215 6	BT-6	1	\$100.00	\$100.00

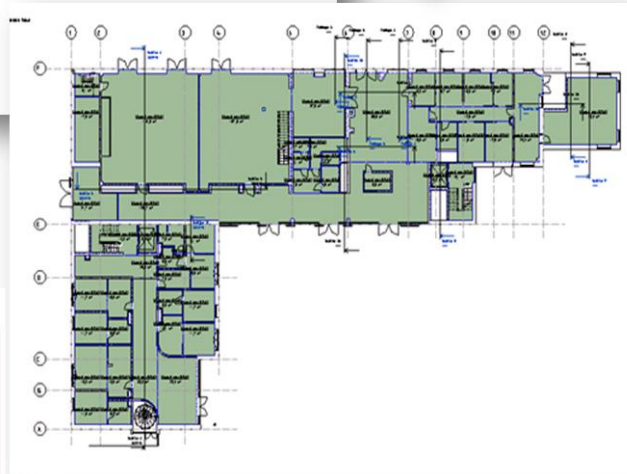
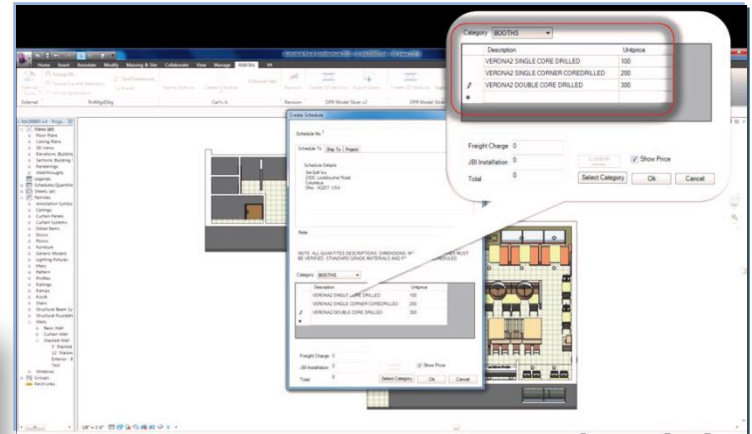
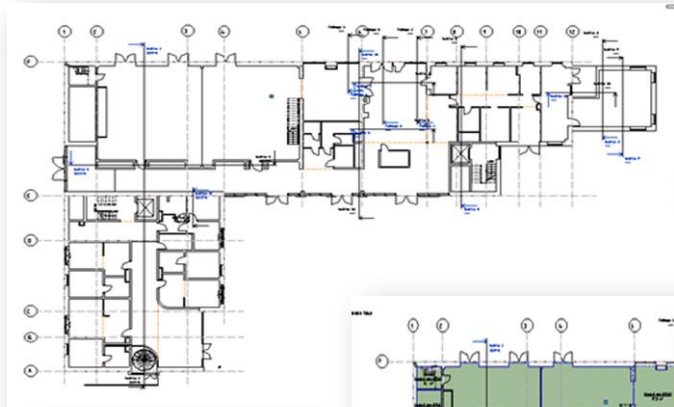
Design Process Automation - Revit

- ❖ Design process automation based on specific customer account
- ❖ Custom design environment for designers including design standards, families, materials
- ❖ Admin setup to define user environment as per specific account
- ❖ Interface with ERP to fetch data required for design like cost estimation, stock availability, lead time etc.
- ❖ Custom report generation based on specific customer account
- ❖ Web based centralized content management system for various custom families for designers
- ❖ This tool communicates with web server and provide drag & drop interface where users can pull the families into Revit for modeling based on various search criteria
- ❖ Quality Control check process for based on custom standards
- ❖ Generates a detailed report document and schedule as a result of the QC process

BIM Documentation Automation

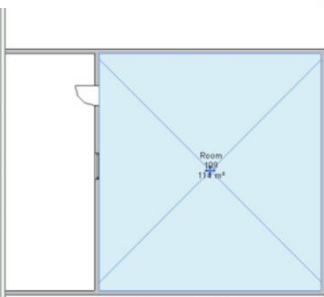
- ❖ Custom AutoCAD DWG export for batch export of sheets from Revit
- ❖ Custom export includes
 - Tags as attributes
 - Maintaining complete view XREF shared across all sheets
 - Maintaining XREF as per category like all annotations , geometry, etc. as separate XREF
 - Custom naming conventions for export
 - Batch processing
- ❖ Custom scheduling with Bi-directional excel data exchange for creating drafting views of Excel sheets
- ❖ Data exchange includes formatting information like fonts, colors etc.
- ❖ Pick data related to components from external source rather than building everything inside the components as parameters

Cost Estimation with Custom Quantity Take-off



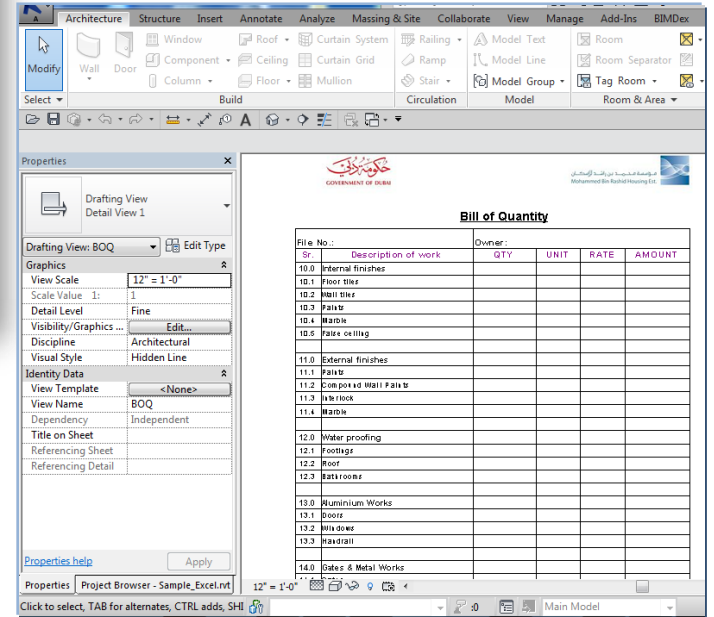
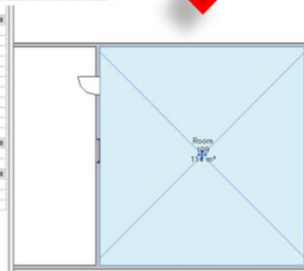
WallSetParam... 0.0

Identity Data	
Name	Room
RoomProgramCode	(none)
Comments	
Occupancy	
Department	
Base Finish	
Ceiling Finish	
Wall Finish	
Floor Finish	
Occupant	
Phasing	New Construct...
Flagcode	
Analysis Results	
Veg	0.000 m ²
DisArea	0.000 m ²
WindowArea	0.000 m ²



WallSetParam... 41790.0

Identity Data	
Name	Room
RoomProgramCode	(none)
Comments	
Occupancy	
Department	
Base Finish	
Ceiling Finish	
Wall Finish	
Floor Finish	
Occupant	
Phasing	New Construct...
Flagcode	
Analysis Results	
Veg	187.438 m ²
DisArea	1.020 m ²
WindowArea	1.846 m ²



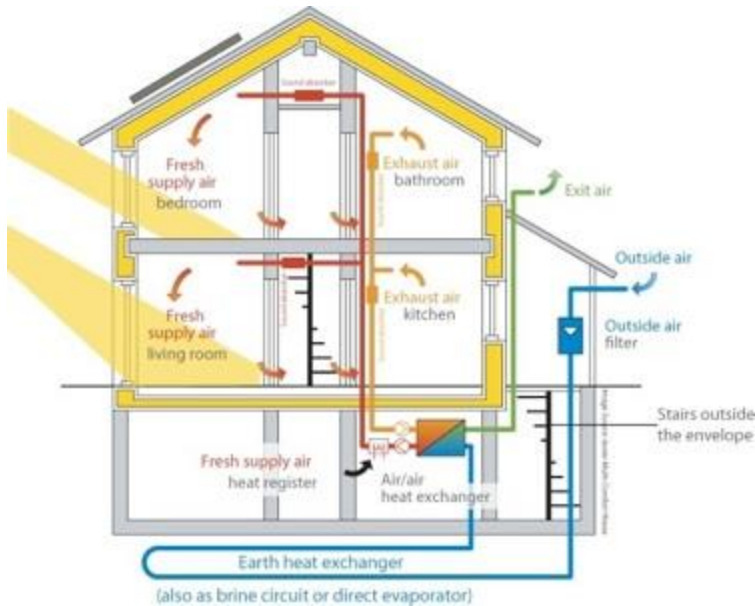
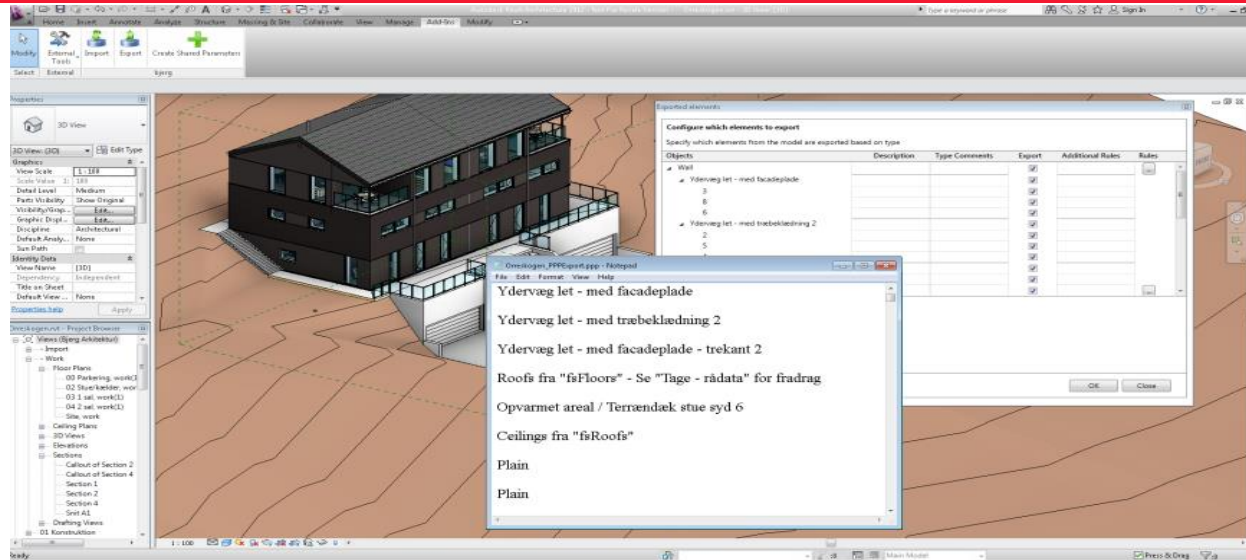
Cost Estimation with Custom Quantity Take-off

- Custom quantity take-off from Revit with option to define custom rule for fetching data like creating custom areas for rooms, calculating paint area based on predefined rule etc.
- Option to define Excel like formulas to define custom schedule data
- Option to either create the custom data as parameters or store the data as hidden information
- Option to sort data, include external data from excel, database or ERP system
- Calculating door area, window area, wall net perimeter and ceiling height grouped by rooms
- Add pictorial representations to schedules
- Generate custom schedules as drafting view inside Revit
- Excel like formatting options to define custom schedule
- Option to export schedules to Excel and PDF
- Add on option to define cost estimation based on cost information from external data source
- Bi-Directional sync option with the external data source

Custom Scheduling Automation - Doors

- ❖ Complete Master Data creation for hardware, hardware sets, room functions etc. with a data link to ERP system
- ❖ Automatic selection of Master Data hardware / hardware sets based on door information
- ❖ Supports various Input files such as AutoCAD Drawings, Excel Sheets, Revit models, and transform(Door Details) to single output (Bill of Material)
- ❖ Automated scheduling of doors, thereby automatic BOQ Creation to optimize the project completion time.
- ❖ Automatic generation and Management of Sales Quotation
- ❖ Track the various version of quote and lets the customer view old version quote at any time.
- ❖ Establish the level of Master Key system and key hierarchy.
- ❖ Determine the level of access for each opening requiring cylinder.
- ❖ Supports both American and European Master Key design (Symbol-alpha & numeric)
- ❖ Separate assignment of child keys based on departments, and room function in the building
- ❖ Automatic door numbering system based on custom standards
- ❖ iPad app to design door hardware and direct access to ERP system for generating sales quotation

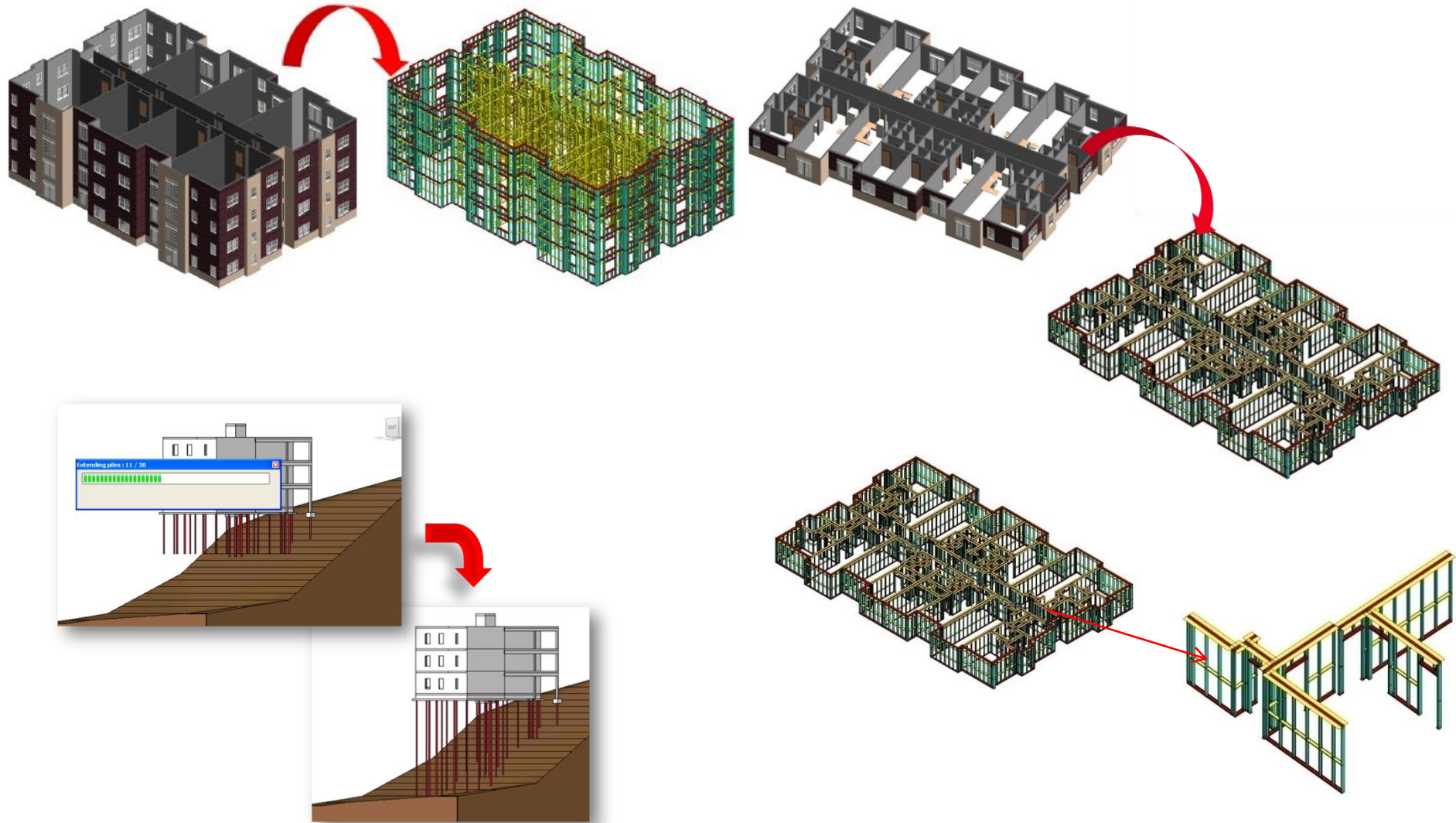
Energy Automation



Energy Automation

- ❖ Automation of energy calculation based on Passive house design principles
- ❖ Read the geometry and other parameter details of floor, room area, etc. from Revit
- ❖ Perform calculation based on Passive house design calculation
- ❖ Based on design calculation Revit model is modified to suit the results
- ❖ Calculation shading vectors of various weather stations using predefined NSRDB weather data
- ❖ Automatic building of roof layout based on data from Pictometry Java API including automatic detection of RTU and obstructions
- ❖ Creation of shading area in Revit for various obstacles based on the shadow vector calculation from NSRDB data and geometric location of the site
- ❖ Automatic solar panel placement based on roof layout, obstacles and shadow area.
- ❖ Optimization of shadow area from NSRDB data

Steel Framing Automation



Steel Framing Automation

- ❖ This application uses Rosette System of manufacturing to panelize Cold Formed Steel (CFS) structures
- ❖ These sustainable structures are meant for areas which are exposed to severe weather and/or seismic activities
- ❖ This application can be used to frame High Rise as well as Mid Rise buildings
- ❖ This application automates the framing of all types of floors, walls, roofs, trusses & MEP installations including structural connections
- ❖ The structural framing plans, Bill of Materials & CNC data of all panel frames are generated automatically
- ❖ Automatic shop drawing generation in Inventor
- ❖ Automatic Structural analysis with interface to Staad.Pro
- ❖ Add-on tool to automatically extend structural piles to topographic surface

Revit Automation

Drag & Drop Interface in Revit

Project Title:

Drag & Drop Interface in Revit

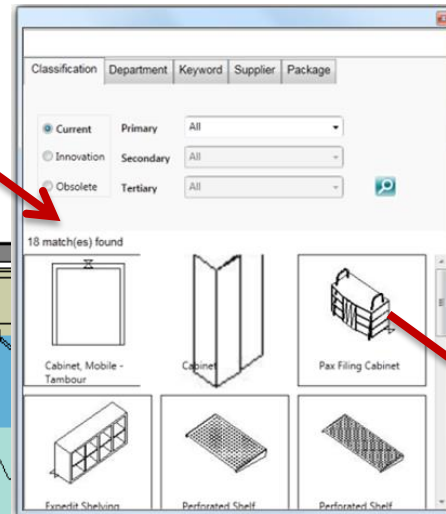
Project Description:

- Create a web interface for various custom Families for designers.
- This tool communicates with web server and provide drag & drop interface where users can pull the families into Revit for modeling.

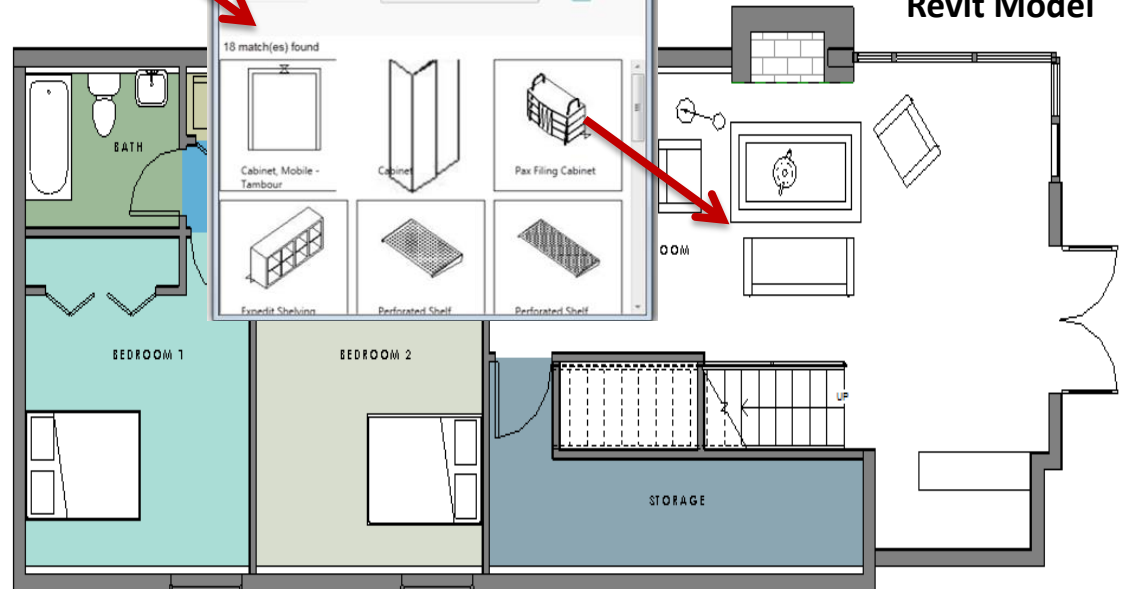
Web Server



Interface



Revit Model



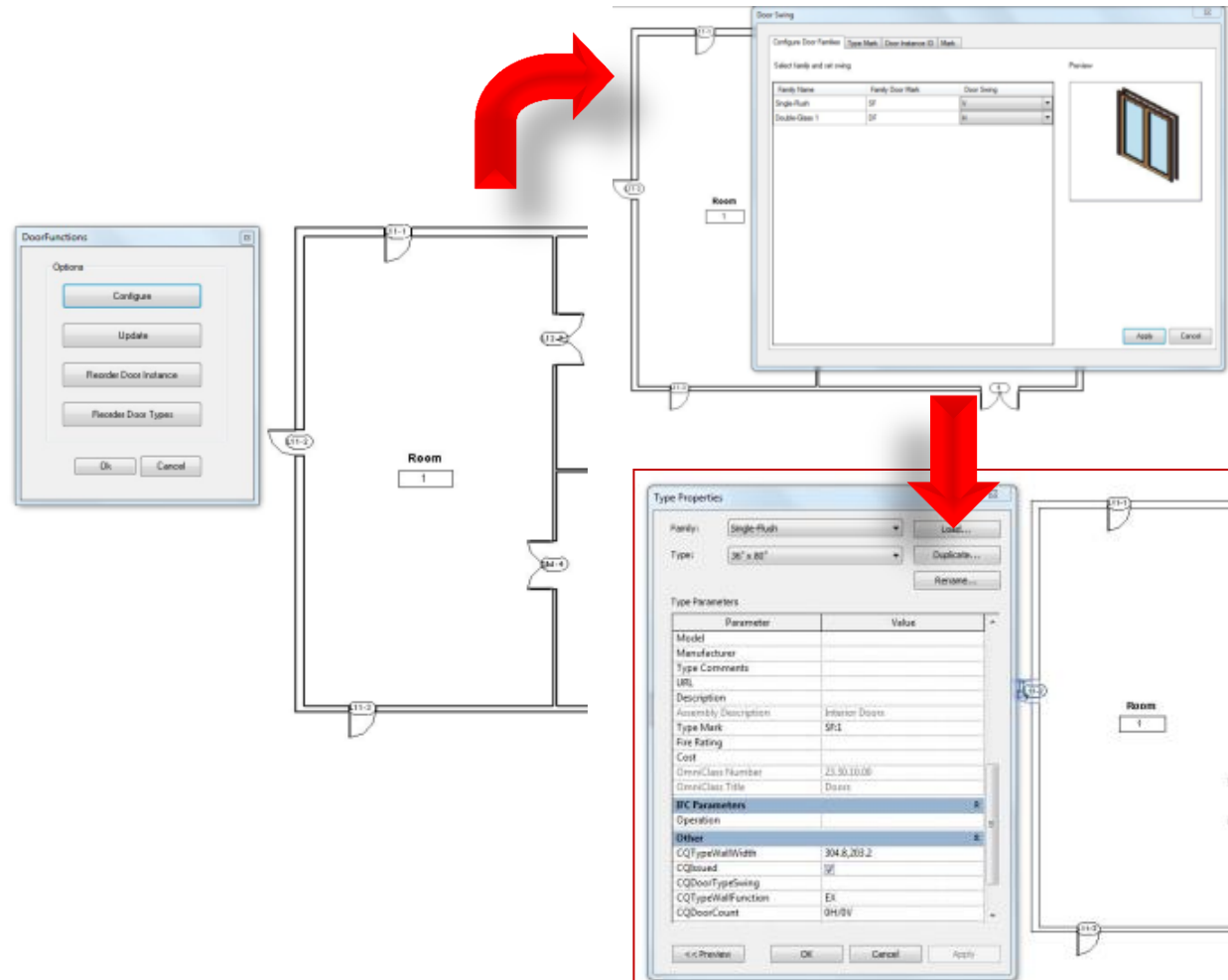
Revit Customization - Architecture

Project Title:

Revit – Door Customization

Project Description:

- Configure Door Type Marks and Marks as per user specification
- Re-ordering door types and door instances, as per user selection



Revit Customization - Architecture

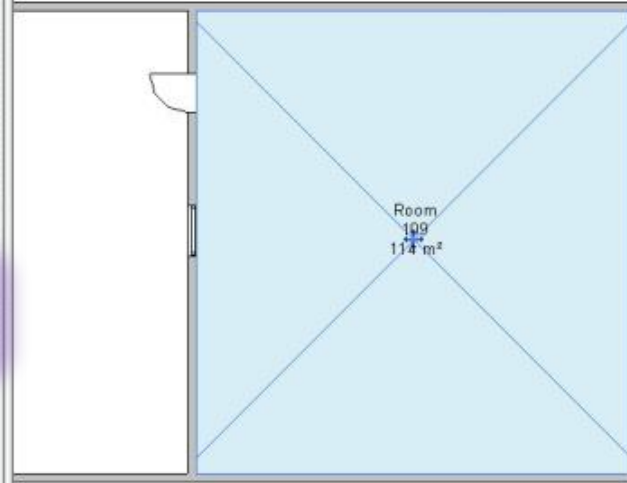
Project Title:

Revit – Room Information

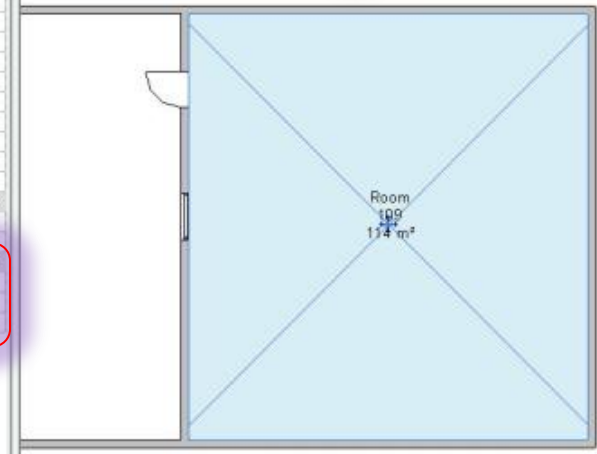
Project Description:

- Calculate wall material area, grouped by rooms
- Calculating door area, window area, wall net perimeter and ceiling height grouped by rooms

WallNetPerim... 0.0	
Identity Data	
Number	109
Name	Room
RomProgramCode	(none)
Comments	
Occupancy	
Department	
Base Finish	
Ceiling Finish	
Wall Finish	
Floor Finish	
Occupant	
Phasing	
Phase	New Construct...
Flagcode	
Analysis Results	
Vegg	0.000 m ²
DoorArea	0.000 m ²
WindowArea	0.000 m ²



WallNetPerim... 41790.0	
Identity Data	
Number	109
Name	Room
RomProgramCode	(none)
Comments	
Occupancy	
Department	
Base Finish	
Ceiling Finish	
Wall Finish	
Floor Finish	
Occupant	
Phasing	
Phase	New Construct...
Flagcode	
Analysis Results	
Vegg	167.416 m ²
DoorArea	1.920 m ²
WindowArea	1.464 m ²



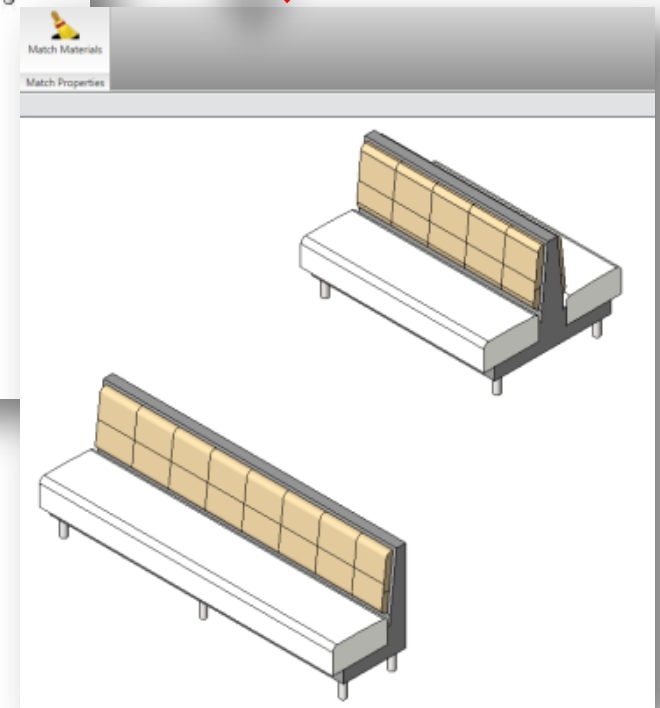
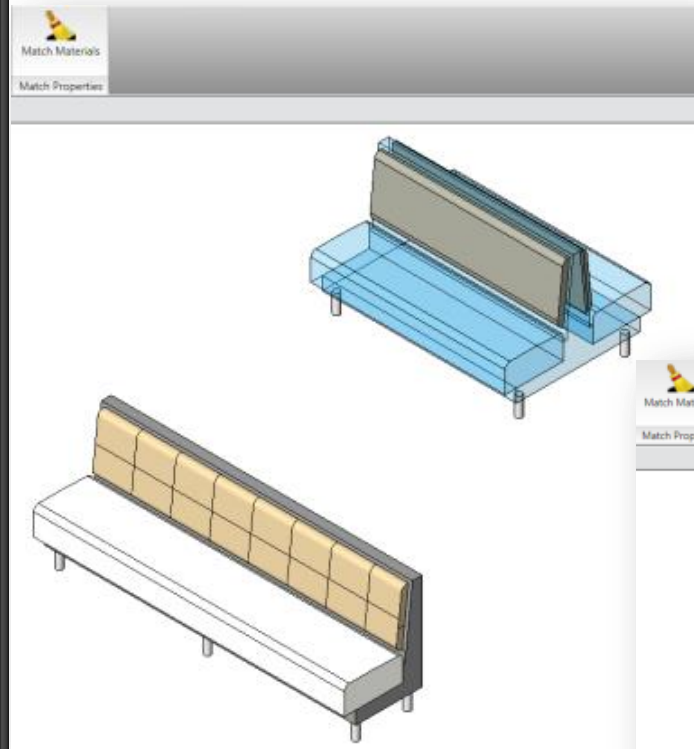
Revit Customization – Interior Design

Project Title:

Revit – Material Assignment

Project Description:

- Matches materials for family objects, from selected host to all child family objects.
- A new family type name will be automatically generated to the selected child family objects.



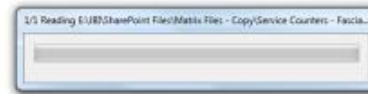
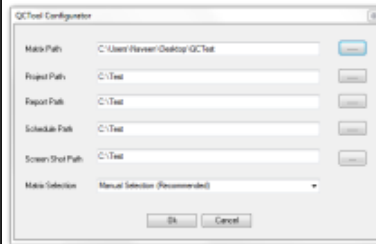
Revit Customization - Interior Design

Project Title:

Revit – Quality Control List

Project Description:

- Quality Control check process for created family objects.
- Generates a detailed report document and schedule as a result of the QC process.
- Creates an instance for each type of the family object, place them in order and exports a screenshot of the resultant project



QC Checklist Report

1. Check if all the Family Type names have Inch mark in them
All the family types have inch mark in them.
2. Delete all imported sketch up geometry from the family
All imported sketch geometry are deleted.
3. Check if there is at least one dimension visible in all elevation views.
No dimensions found in "FRONT" view.

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Navisworks Automation

Clash Grouping Plug-in for NavisWorks

Project Title:

Clash grouping Plug-in

Project Description:

- Automates the grouping of clashes based on user selection of a member in clash group
- Custom clash selection based on category
- Automatic clash group numbering
- Grouping based on selection, category, search sets etc.

The screenshot displays the Autodesk NavisWorks 2014 interface with the Clash Detective and Clash Grouping plug-ins. The Clash Detective window shows a table of clash categories and their counts.

Name	Status	Clashes	New	Active	Reviewed	Approved	Resolved
Ductwork vs Drywall Framing	Done	361	361	0	0	0	0
Ceiling vs Ductwork	Done	313	313	0	0	0	0
Concrete Floor vs Drywall Framing	Done	158	158	0	0	0	0
Ceiling vs Lighting	Done	152	152	0	0	0	0
Ductwork vs Water Piping	Done	150	150	0	0	0	0
Ceiling vs Fire Protection	Done	149	149	0	0	0	0
Drywall Framing vs Water piping	Done	146	146	0	0	0	0
Drain Waste Vent vs Drywall Framing	Done	106	106	0	0	0	0
Fire Protection vs Drywall Framing	Done	93	93	0	0	0	0
Ductwork vs Fire Protection	Done	65	65	0	0	0	0
Drain Waste Vent vs Water Piping	Done	38	38	0	0	0	0
Drain Waste Vent vs Concrete Floors	Done	19	19	0	0	0	0

The Clash Grouping dialog box is open, showing options for Clash Selection (Test Set With Clashes, Show All Test) and Clash Grouping (All Clashes into one group, Group By, Group by Search Sets). The Group Name Settings section includes Numbering Style (1, 2, 3...), Start Number at (1), Number Continuation (Consecutive Order), and Prefix (None). The background shows a 3D model of a building structure with green lines indicating clash locations.

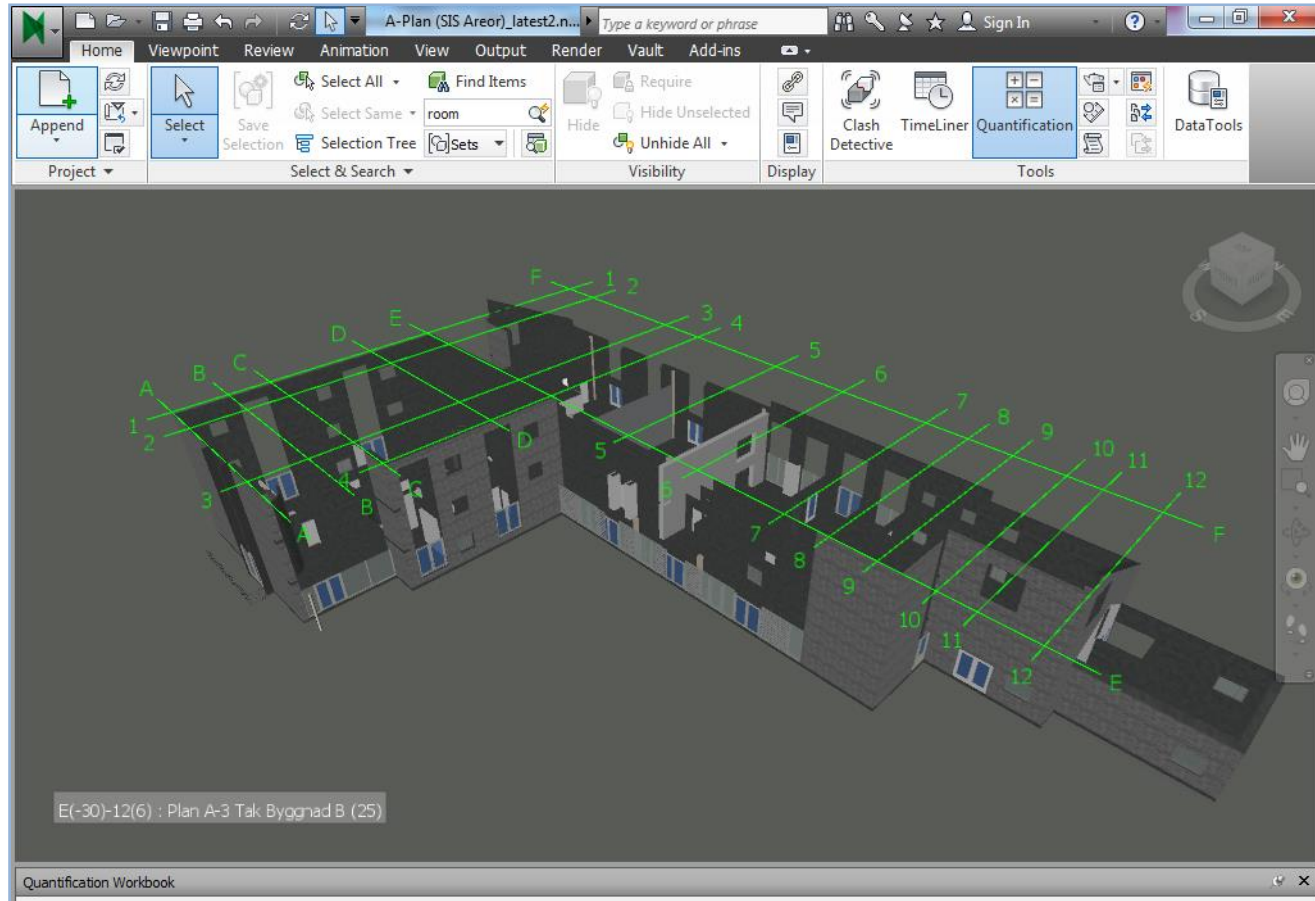
Room based Clash Grouping for NavisWorks

Project Title:

Room based Clash grouping Plug-in

Project Description:

- This application exports Rooms and Objects created in Revit to Navisworks
- Custom clash detection Navisworks application analyzes and obtains the list of objects that collides with a room.
- The application automatically assigns the corresponding room number to it's parameter to which it collides.



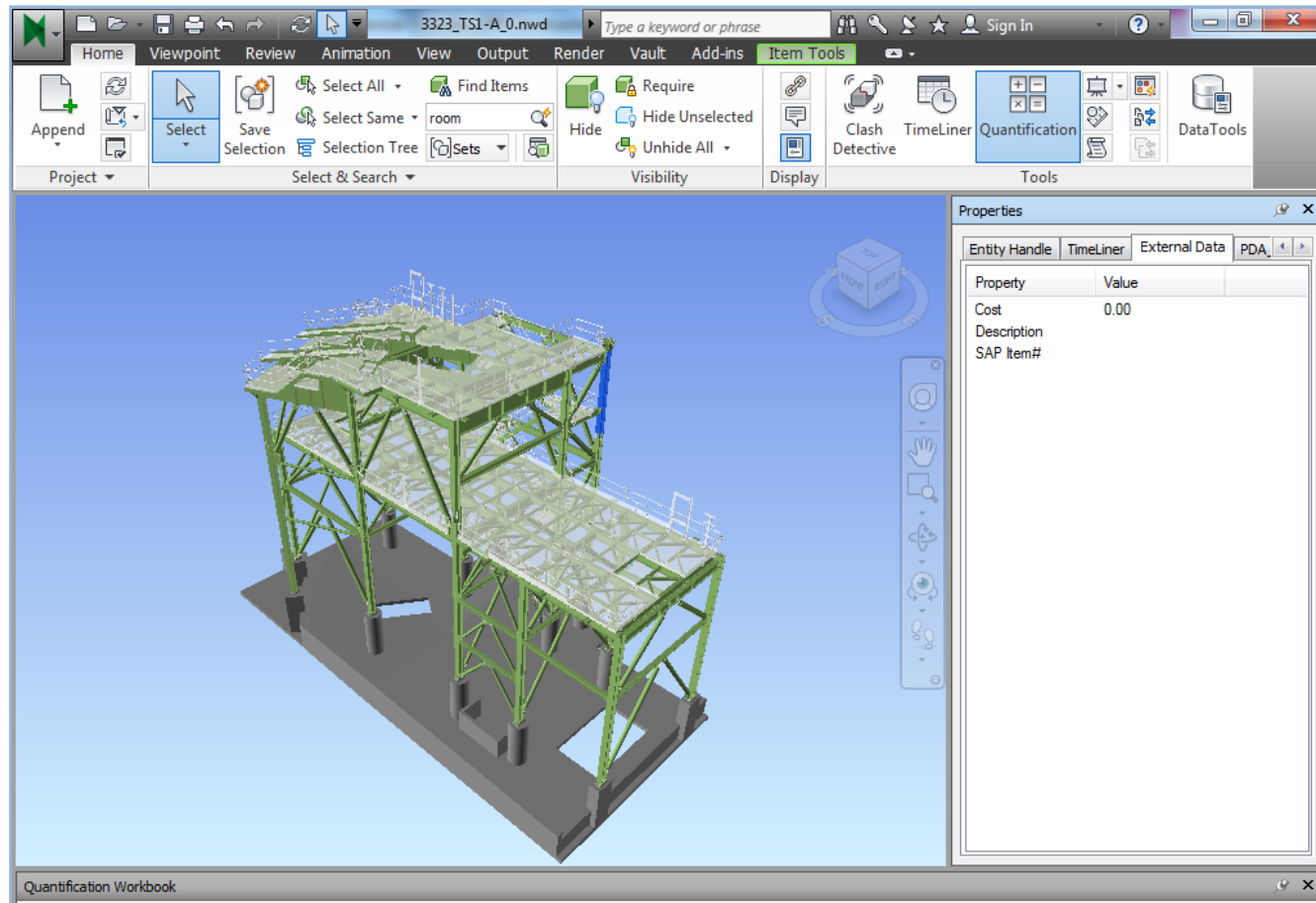
Custom Property Manager for NavisWorks

Project Title:

Custom Property Manager for NavisWorks

Project Description:

- This tool creates custom properties in NavisWorks objects based on external data
- Option to set object data mapping with external data source
- Bi-Directional data exchange between NavisWorks and external data



Document Management System

Project Title:

Document Management System

Project Description:

- Create and maintain the Document Template System, which includes documents, images and video links under each object's category
- Auto-forwarding capability to search field based on RFID
- Separate upload option for Navisworks file with viewing capability

The screenshot shows the CARIS LIFE SCIENCES web application interface. The header includes the company logo and address: Cotton Center Building 16, 4610 S. 44th Place, Phoenix, Arizona 85040. A user is logged in as 'Hello test'. The main content area displays a breadcrumb trail: Home > Operation & Maintenance Manual > Division 06 Wood and Plastics > 06410 Custom Cabinets > Custom Cabinets. Below this, the object ID is 06410. The 'ITEM DOCUMENTS' section shows a table with one entry: 'Gatehouse' with the description 'Gate House model in NavisWorks'. The 'NOTES' section is currently empty, displaying 'No notes found'.

This screenshot shows the same web application interface but with a 3D model viewer open. The viewer displays a 3D architectural model of a gatehouse structure. Below the model, there are navigation controls: 'Walk', 'Look Around', 'Zoom', and 'Fly'. The background of the viewer is a blue gradient. The interface elements from the previous screenshot are visible behind the viewer window.

Quality Assurance

- ✓ The term Quality Assurance describes any systematic process for ensuring quality during the successive steps in developing a product or service.
- ✓ As an ISO 9001:2008 company we ensure that our company's Quality Assurance system follows best industry practices.

Olilo's quality approach places an emphasis on three aspects:

- ✓ Elements such as controls, job management, adequate processes, performance and integrity criteria and identification of records
- ✓ Competence such as knowledge, skills, experiences, qualifications, Soft elements, such as personnel integrity, confidence, organizational culture, motivation, team spirit and quality relationships.
- ✓ Infrastructure

Contact Us

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Thank You